

01378560 COLES BROOK AT HACKENSACK, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°54'40", long 74°02'25" referenced to North American Datum of 1983, Hackensack City, Bergen County, NJ, Hydrologic Unit 02030103, at bridge on Main Street in Hackensack, 0.8 mi upstream from mouth, and 1.9 mi northwest of Teaneck.

DRAINAGE AREA.--7.00 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1965-72. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft³/s
Nov 13, 2007	6.95
Feb 20, 2008	8.87
Jun 4, 2008	11.4
Aug 18, 2008	1.90

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1965, 1967, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 5.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μ S/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 13...	0930	7.0	3.2	.195	.156	755	--	--	7.0	476	8.5	5.0	140
Feb 20...	1300	8.9	6.5	.143	.107	761	13.6	106	7.8	670	.0	4.8	170
Jun 04...	1130	11	17	.341	.274	753	6.3	67	7.2	298	18.5	18.1	84
Aug 18...	0950	1.9	3.6	.178	.132	759	6.2	70	7.1	412	26.0	20.8	110

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 13...	41.9	8.41	2.71	32.2	102	72.3	<.12	9.9	17.9	251	284	2	.34
Feb 20...	53.4	9.78	2.02	60.0	112	123	E.08	11.3	25.4	E359	370	1	.35
Jun 04...	25.6	4.77	2.61	23.3	64	46.6	E.07	6.1	11.0	E162	192	12	.76
Aug 18...	34.5	6.86	2.99	27.1	80	60.3	E.08	9.6	20.4	E215	243	2	.51

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 13...	.068	.97	.07	1.3	1.4	.057	.067	.100	.6	<.04	.6	5.5	32
Feb 20...	.029	1.46	.06	1.8	1.9	.015	.020	.052	.6	<.04	.6	3.9	29
Jun 04...	.227	.65	.26	1.4	1.7	.055	.087	.177	2.2	<.04	2.2	8.7	25
Aug 18...	.100	1.21	E.04	1.7	E1.8	.048	.060	.087	.3	<.04	.3	5.3	34